

● PRINTER RUSH ●

(PTO ASSISTANCE)

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Attn Chief Draftsperson:

[RUSH] MESSAGE:

The specification does not contain a paragraph referring to
colored drawings as required per 37 CFR 1.84 (a)(2)(iii).

Please respond.

[XRUSH] RESPONSE: Corrected

INITIALS: AS

Brief Description of the Drawings

FIGURE 1A. Cross sectional view of the modified chamber used to cool slices with the Peltier device. The slice was in direct contact with the Peltier device, which was glued to a brass heat sink attached to the base of the chamber.

FIGURES 2A-2C. Cooling suppresses seizure-like discharges in the dentate granule cell layer of a slice exposed to 4-AP (50 μ M). **FIGURE 2A-CONTROL.**

Arrow indicates onset of 35 second normothermic seizure recorded in the dentate granule cell layer. **FIGURE 2B-COOLING.** A seizure in the same slice was terminated after seven seconds by cooling. **FIGURE 2C-RECOVERY.**

When normothermic, the same slice resumed generating seizure-like discharges, but they were briefer than before cooling. V: voltage; T: temperature.

FIGURE 3. Effect of cooling observed on a slower time scale. Four normothermic seizures were observed in a 4-AP exposed slice (arrows). At the onset of the fifth seizure, the slice was cooled, resulting in seizure termination. There was a rebound hyperexcitability during the immediate rewarming phase. While there were interictal bursts for the next 11 minutes, there were no seizure-like discharges. This relative refractory period corresponds to the reduced evoked field potentials observed for at least ten minutes after slice cooling (see **FIGURE 5**). V: voltage; T: temperature.

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the office upon request and payment of the necessary fee.